

Figure 5-13. Control system variations for EMCS building purge and recirculation modes for pneumatic actuators.

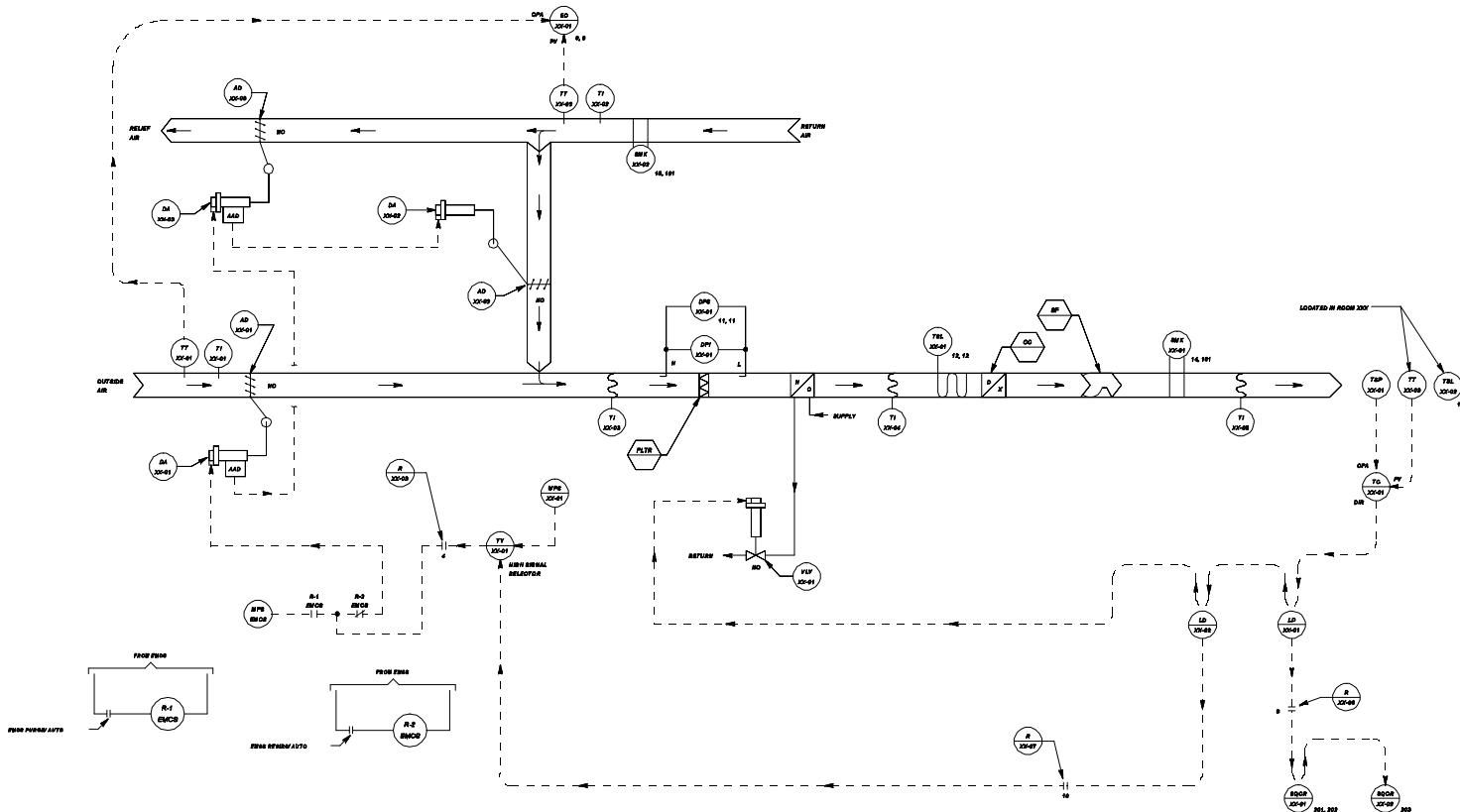


Figure 5-14. Control system variations for EMCS building purge and recirculation modes for electric or electronic actuators.

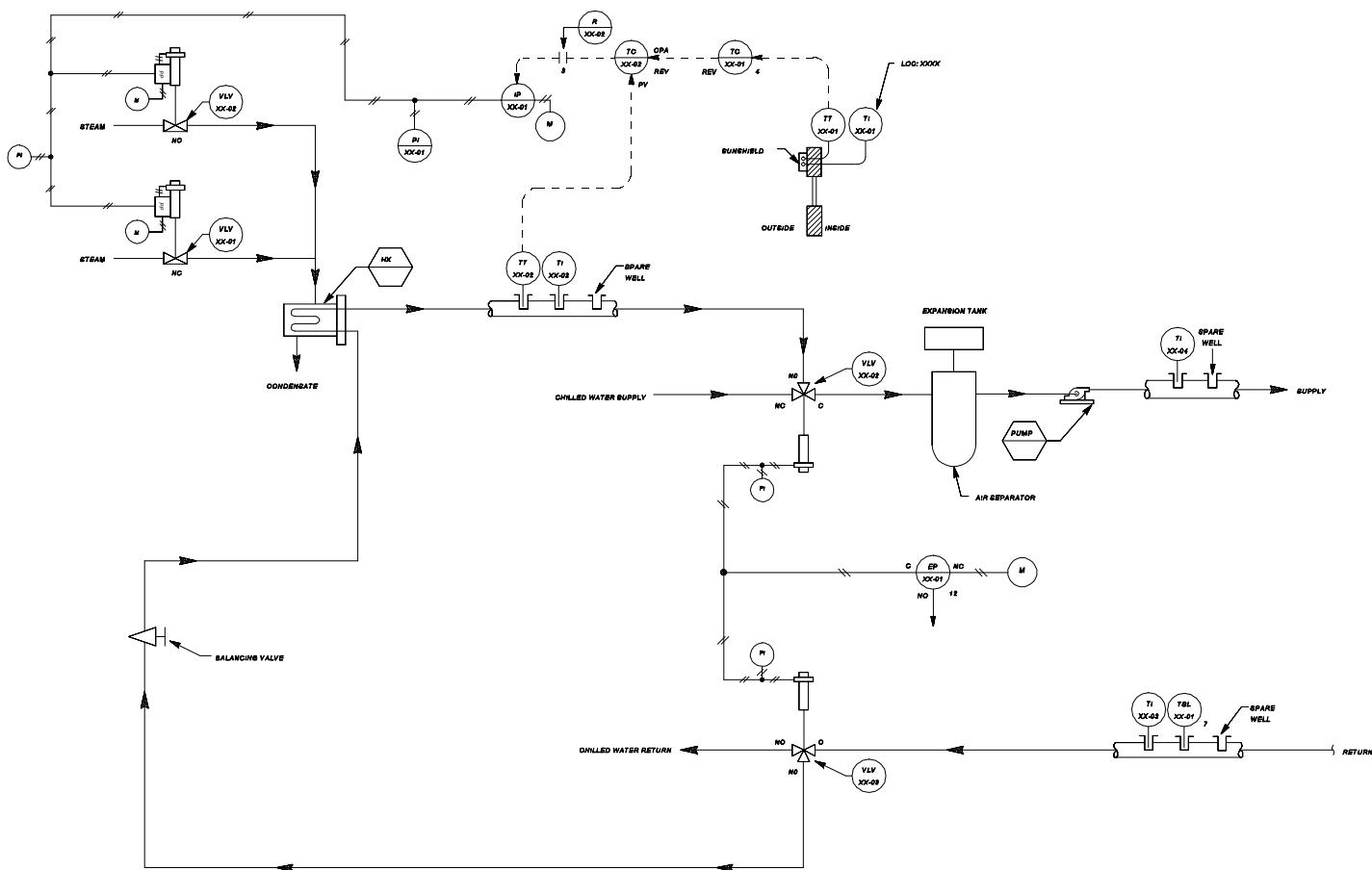


Figure 5-16. Schematic variations for dual steam valves.

LOOP CONTROL FUNCTION	DEVICE NUMBER	DEVICE FUNCTION	SETPOINT	RANGE	ADDITIONAL PARAMETERS
DUAL-TEMP SUPPLY TEMPERATURE	VLV-XX-01	CONVERTER STEAM VALVE	—	21 - 48 kPa (5-7 PSIG)	$K_v = 8.8$ ($C_v = 10$) CLOSE AGAINST 70 kPa (10 PSIG)
	VLV-XX-02	CONVERTER STEAM VALVE	—	48 - 103 kPa (7-15 PSIG)	$K_v = 28$ ($C_v = 50$) CLOSE AGAINST 70 kPa (10 PSIG)
	TC-XX-01	OUTSIDE-AIR TEMPERATURE CONTROLLER	-1 DEG C (30 DEG F) PROPORTIONAL BAND 37.5 % MANUAL RESET 50%	-35 TO 155 DEG C (-30 TO 130 DEG F)	PV CONTACT STARTS PUMP AT 10 DEG C (50 DEG F) STOPS PUMP AT 17 DEG C (62 DEG F)
	TC-XX-02	SYSTEM-SUPPLY TEMPERATURE CONTROLLER	OA TEMP = -18 DEG C (0 DEG F), HWB TEMP = 83 DEG C (200 DEG F) OA TEMP = 18 DEG C (60 DEG F), HWB TEMP = 38 DEG C (100 DEG F)	PV = 38 TO 121 DEG C (100 TO 250 DEG F) OPA = 38 TO 83 DEG C (100 TO 200 DEG F)	OPA LO-LIMIT = 38 DEG C (100 DEG F) OPA LO-LIMIT = 83 DEG C (200 DEG F)
	TT-XX-01	OUTSIDE-AIR TEMPERATURE TRANSMITTER	—	-35 TO 155 DEG C (-30 TO 130 DEG F)	—
	TT-XX-02	SYSTEM-SUPPLY TEMPERATURE TRANSMITTER	—	35 TO 121 DEG C (100 TO 250 DEG F)	—
DUAL-TEMP CHANGEOVER	TBL-XX-01	SYSTEM RETURN CHANGEOVER THERMOSTAT	—	-1 TO 118 DEG C (30 TO 240 DEG F)	CONTACT CLOSE AT 28 DEG C (85 DEG F) CONTACT OPEN AT 32 DEG C (90 DEG F)
	VLV-XX-02	SUPPLY CHANGEOVER VALVE	—	2-POSITION	$K_v = 6$ ($C_v = 7$) CLOSE AGAINST 70 kPa (10 PSIG)
	VLV-XX-03	RETURN CHANGEOVER VALVE	—	2-POSITION	$K_v = 6$ ($C_v = 7$) CLOSE AGAINST 70 kPa (10 PSIG)
OCCUPIED MODE	CLK-XX-01 CONTACT	365-DAY SCHEDULE	—	NORMAL SCHEDULE: M-F CONTACT CLOSED: 0700 HRS CONTACT OPEN: 1700 HRS	CONTACT OPEN: SAT, SUN

NOTE : OTHER CONTROL DEVICES SUCH AS IPS AND RELAYS ARE NOT SHOWN

Figure 5-17. Equipment schedule variations for dual steam valves.